





# Compact Fluorescent Lamps Integrated



# Compact Fluorescent Lamps Integrated (CFL-I)

Energy savers to safeguard the world

Philips compact fluorescent lamps with integral control gear

Philips invented compact fluorescent energy savers (CFL-I) a quarter of a century ago. Since then, continuous development has produced better light quality, longer, more reliable life, lower mercury content and an increasingly compact design. In addition, the range available has greatly expanded to meet virtually all existing applications and even created new ones.

Today, compact fluorescent lamps are increasingly used both indoors and outdoors, summer and winter, for decorative and display purposes as well as for providing easily-installed low-cost amenity lighting.

The first Philips energy savers were designed to replace ordinary incandescent filament lamps, to combat rising energy costs following an oil crisis. Now, the need for CFL-I lamps is even more fundamental - they also play a major role in combating climate change due to CO<sub>2</sub> emissions. So when you upgrade clients' lighting from incandescent to CFL-I, you are doing much more than simply reducing their lighting costs. You are playing your part in sustaining precious resources, safeguarding the world for all our grandchildren to enjoy. All the benefits of CFL-I are obtained simply by changing the lamp! Like incandescent lamps, they run direct from the mains using a standard lamp cap. They produce the same amount of high-quality light as the lamp they replace. But there the resemblance with incandescent lamps ends

- Compact fluorescent lamps can cut energy consumption by as much as 80%, saving a fortune on energy bills and drastically reducing CO<sub>2</sub> greenhouse gas emissions.
- Compact fluorescent lamps last between six and fifteen times longer than incandescent lamps, saving you expensive relamping maintenance and the inconvenience of failed lamps.
- Compact fluorescents produce less heat than incandescent lamps, reducing discomfort as well as airconditioning bills.
- Unlike incandescent lamps, many compact fluorescents are available in a choice of light colour temperatures.

Note: Not all Compact fluorescent lamps with integral control gear are suitable for use with external electronic devices.





---

MASTER PL-E 15W E27

### Product Description

- Non-covered energy-saving MASTER lamps for professional use

### Product Features

- Lightweight, superior long-life alternative to incandescent lamps
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime fifteen times longer than an incandescent lamp
- European energy efficiency labelling class A for the complete range
- Very good lumen maintenance throughout the lifetime of the lamp
- Complete range equipped with the unique Philips bridged burner technology (Mercury)
- Very low mercury content ( $\leq 2$  mg)

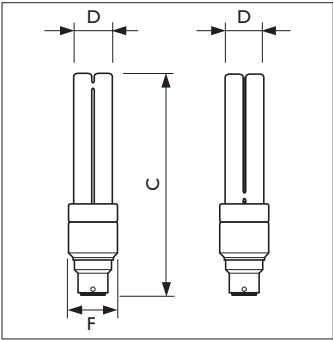
### Product Benefits

- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output
- Smallest dimensions ensuring optimal physical fit
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and / or where lamp replacement is difficult
- The unique bridged burner results in an excellent run-up time with very high initial light output and better thermal performance
- Green product as best environmental choice in the CFL portfolio
- Lifetime independent of switching on-off
- Lowest total cost of ownership

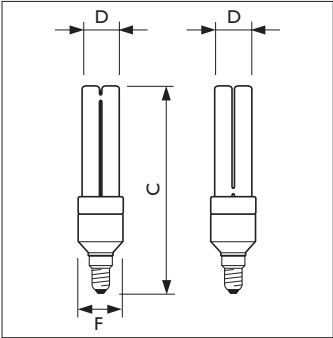
### Application

- Designed to replace incandescent lamps in most professional and semi-professional applications
- Mainly indoor (e.g. hotels, restaurants, offices)
- For outdoor applications 3 types (15, 20, 23 W) will remain available also in Amalgam with the benefit of virtually constant light output ( $>90\%$ ) over the recommended temperature
- Enclosed fixtures are required for outdoor applications
- Suitable for emergency lighting with DC supply
- Not suitable for dimming and electronic devices

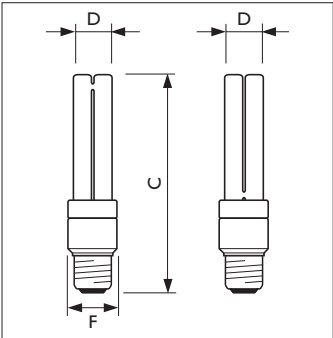
**[www.philips.com/OEM](http://www.philips.com/OEM)**



MASTER PL-E B22



MASTER PL-E E14



MASTER PL-E E27

Type	CMax	DMax	FMax
MASTER PL-Electronic 8W/827 B22 230-240V ICT	117.4	28.0	40.3
MASTER PL-Electronic 11W/827 B22 230-240V ICT	139.4	28.0	40.3
MASTER PL-Electronic 14W/827 B22 230-240V ICT	161.4	28.0	40.3

Type	CMax	DMax	FMax
MASTER PL-Electronic 5W/827 E14 230-240V ICT	117.2	28.0	40.3
MASTER PL-Electronic 8W/827 E14 230-240V ICT	122.2	28.0	40.3
MASTER PL-Electronic 11W/827 E14 230-240V ICT	144.2	28.0	40.3

Type	CMax	DMax	FMax
MASTER PL-Electronic 5W/827 E27 230-240V ICT	114.2	28.0	40.3
MASTER PL-Electronic 8W/827/865 E27 230-240V ICT	119.2	28.0	40.3
MASTER PL-Electronic 11W/827/865 E27 230-240V ICT	141.2	28.0	40.3
MASTER PL-Electronic 14W/827/865 E27 230-240V ICT	163.2	28.0	40.3

## Technical data

Type	Voltage (V)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 50% failures (hrs)
MASTER PL-Electronic 5W/827 E14/E27 230-240V ICT	230-240	5	A	No	15000
MASTER PL-Electronic 8W/827 E14/E27/B22 230-240V ICT	230-240	8	A	No	15000
MASTER PL-Electronic 8W/865 E27 230-240V ICT	230-240	8	A	No	12000
MASTER PL-Electronic 11W/827 E14/E27/B22 230-240V ICT	230-240	11	A	No	15000
MASTER PL-Electronic 11W/865 E27 230-240V ICT	230-240	11	A	No	12000
MASTER PL-Electronic 14W/827 E27/B22 230-240V ICT	230-240	14	A	No	15000
MASTER PL-Electronic 14W/865 E27 230-240V ICT	230-240	14	A	No	12000
MASTER PL-Electronic 15W/827 E27/B22 230-240V ICT	230-240	15	A	No	15000
MASTER PL-Electronic 15W/865 E27 230-240V ICT	230-240	15	A	No	12000
MASTER PL-Electronic 20W/827 E27/B22 230-240V ICT	230-240	20	A	No	15000
MASTER PL-Electronic 20W/840/865 E27 230-240V ICT	230-240	20	A	No	12000
MASTER PL-Electronic 23W/827 E27/B22 230-240V ICT	230-240	23	A	No	15000
MASTER PL-Electronic 23W/840/865 E27 230-240V ICT	230-240	23	A	No	12000
MASTER PL-Electronic 27W/827 E27 230-240V ICT	230-240	27	A	No	15000
MASTER PL-Electronic 27W/865 E27 230-240V ICT	230-240	27	A	No	12000
MASTER PL-Electronic 33W/827 E27 230-240V ICT	230-240	33	A	No	15000
MASTER PL-Electronic 33W/865 E27 230-240V ICT	230-240	33	A	No	12000

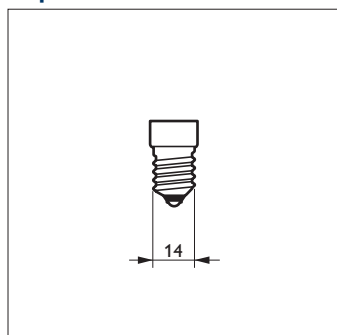
## Light data

Type	Luminous flux lamp (lm)	Luminous Efficacy Lamp (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER PL-Electronic 5W/827 E14/E27 230-240V ICT	230	46	Warm White	2700	82	470	428
MASTER PL-Electronic 8W/827 E14/E27/B22 230-240V ICT	400	50	Warm White	2700	82	467	424
MASTER PL-Electronic 8W/865 E27 230-240V ICT	380	48	Cool Daylight	6500	77	315	340
MASTER PL-Electronic 11W/827 E14/E27/B22 230-240V ICT	600	55	Warm White	2700	82	466	422
MASTER PL-Electronic 11W/865 E27 230-240V ICT	575	52	Cool Daylight	6500	77	315	340
MASTER PL-Electronic 14W/827 E27/B22 230-240V ICT	900	64	Warm White	2700	82	466	422
MASTER PL-Electronic 14W/865 E27 230-240V ICT	855	61	Cool Daylight	6500	77	315	340
MASTER PL-Electronic 15W/827 E27/B22 230-240V ICT	875	56	Warm White	2700	82	457	416
MASTER PL-Electronic 15W/865 E27 230-240V ICT	825	52.8	Cool Daylight	6500	76	315	340
MASTER PL-Electronic 20W/827 E27/B22 230-240V ICT	1200	60	Warm White	2700	82	457	416
MASTER PL-Electronic 20W/840 E27 230-240V ICT	1175	58.8	Cool White	4000	80	382	389
MASTER PL-Electronic 20W/865 E27 230-240V ICT	1175	57.5	Cool Daylight	6500	76	315	340
MASTER PL-Electronic 23W/827 E27/B22 230-240V ICT	1500	63	Warm White	2700	82	457	416
MASTER PL-Electronic 23W/840 E27 230-240V ICT	1400	59.4	Cool White	4000	80	382	389
MASTER PL-Electronic 23W/865 E27 230-240V ICT	1400	59.4	Cool Daylight	6500	76	315	340
MASTER PL-Electronic 27W/827 E27 230-240V ICT	1800	62	Warm White	2700	82	457	416
MASTER PL-Electronic 27W/865 E27 230-240V ICT	1700	58.6	Cool Daylight	6500	76	315	340
MASTER PL-Electronic 33W/827 E27 230-240V ICT	2250	65.2	Warm White	2700	82	457	416
MASTER PL-Electronic 33W/865 E27 230-240V ICT	2150	64.5	Cool Daylight	6500	76	315	340

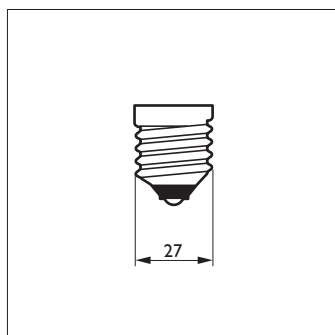
## Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8711500
MASTER PL-Electronic 5W/827 E14 230-240V ICT	FBT-5/27/1b-230/240-E14	8711500263568	60 gr	10	18.5 cm x 7.8 cm x 14.3 cm	8711500263575	263568 25
MASTER PL-Electronic 5W/827 E27 230-240V ICT	FBT-5/27/1b-230/240-E27	8711500263537	60 gr	10	18.5 cm x 7.8 cm x 14.3 cm	8711500263551	263537 25
MASTER PL-Electronic 8W/827 B22 230-240V ICT	FBT-8/27/1b-230/240-B22	8711500263636	60 gr	10	18.5 cm x 7.8 cm x 14.3 cm	8711500263643	263636 25
MASTER PL-Electronic 8W/827 E14 230-240V ICT	FBT-8/27/1b-230/240-E14	8711500263667	60 gr	10	18.5 cm x 7.8 cm x 14.3 cm	8711500263674	263667 25
MASTER PL-Electronic 8W/827 E27 230-240V ICT	FBT-8/27/1b-230/240-E27	8711500263582	60 gr	10	18.5 cm x 7.8 cm x 14.3 cm	8711500263599	263582 25
MASTER PL-Electronic 8W/865 E27 230-240V ICT	FBT-8/65/2a-230/240-E27	8711500263605	60 gr	10	18.5 cm x 7.8 cm x 14.3 cm	8711500263612	263605 25
MASTER PL-Electronic 11W/827 B22 230-240V ICT	FBT-11/27/1b-230/240-B22	8711500263759	71 gr	10	18.5 cm x 7.8 cm x 16.4 cm	8711500263766	263759 25
MASTER PL-Electronic 11W/827 E14 230-240V ICT	FBT-11/27/1b-230/240-E14	8711500263773	63 gr	10	18.5 cm x 7.8 cm x 16.4 cm	8727900213737	263773 25
MASTER PL-Electronic 11W/827 E27 230-240V ICT	FBT-11/27/1b-230/240-E27	8711500263681	71 gr	10	18.5 cm x 7.8 cm x 16.4 cm	8711500263698	263681 25
MASTER PL-Electronic 11W/865 E27 230-240V ICT	FBT-11/65/2a-230/240-E27	8711500263735	71 gr	10	18.5 cm x 7.8 cm x 16.4 cm	8711500263742	263735 25
MASTER PL-Electronic 14W/827 B22 230-240V ICT	FBT-14/27/1b-230/240-B22	8711500263841	76 gr	10	18.5 cm x 7.8 cm x 18.5 cm	8711500263858	263841 25
MASTER PL-Electronic 14W/827 E27 230-240V ICT	FBT-14/27/1b-230/240-E27	8711500263797	76 gr	10	18.5 cm x 7.8 cm x 18.5 cm	8711500263803	263797 25
MASTER PL-Electronic 14W/865 E27 230-240V ICT	FBT-14/65/2a-230/240-E27	8711500263810	76 gr	10	18.5 cm x 7.8 cm x 18.5 cm	8711500263827	263810 25
MASTER PL-Electronic 15W/827 B22 230-240V ICT	FBT 15/27/1b-230/240-b22	8711500752055	84 gr	6	16 cm x 11 cm x 14.7 cm	8711500714817	752055 10
MASTER PL-Electronic 15W/827 E27 230-240V ICT	FBT 15/27/1b-230/240-E27	8711500751423	84 gr	6	16 cm x 11 cm x 14.7 cm	8711500761392	751423 10
MASTER PL-Electronic 15W/865 E27 230-240V ICT	FBT 15/65/2a-230/240-E27	8711500869203	84 gr	6	16 cm x 11 cm x 14.7 cm	8711500869210	869203 10
MASTER PL-Electronic 20W/827 B22 230-240V ICT	FBT 15/27/1b-230/240-B22	8711500752062	91 gr	6	16 cm x 11 cm x 15.8 cm	8711500714824	752062 10
MASTER PL-Electronic 20W/827 E27 230-240V ICT	FBT 20/27/1b-230/240-E27	8711500751430	91 gr	6	16 cm x 11 cm x 15.8 cm	8711500761408	751430 10
MASTER PL-Electronic 20W/840 E27 230-240V ICT	FBT 20/40/1b-230/240-E27	8711500873590	91 gr	6	16 cm x 11 cm x 15.8 cm	8711500873606	873590 10
MASTER PL-Electronic 20W/865 E27 230-240V ICT	FBT 20/65/2a-230/240-E27	8711500712226	91 gr	6	16 cm x 11 cm x 15.8 cm	8711500764836	712226 10
MASTER PL-Electronic 23W/827 B22 230-240V ICT	FBT 23/27/1b-230/240-B22	8711500752079	98 gr	6	16 cm x 11 cm x 17.3 cm	8711500714862	752079 10
MASTER PL-Electronic 23W/827 E27 230-240V ICT	FBT 23/27/1b-230/240-E27	8711500751447	98 gr	6	16 cm x 11 cm x 17.3 cm	8711500761415	751447 10
MASTER PL-Electronic 23W/840 E27 230-240V ICT	FBT 23/40/1b-230/240-E27	8711500873613	98 gr	6	16 cm x 11 cm x 17.3 cm	8711500873682	873613 10
MASTER PL-Electronic 23W/865 E27 230-240V ICT	FBT 23/65/2a-230/240-E27	8711500712233	98 gr	6	16 cm x 11 cm x 17.3 cm	8711500764850	712233 10
MASTER PL-Electronic 27W/827 E27 230-240V ICT	FBT 27/27/1b-230/240-E27	8711500543851	121 gr	6	16 cm x 11 cm x 19.5 cm	8711500543608	543851 10
MASTER PL-Electronic 27W/865 E27 230-240V ICT	FBT 27/65/2a-230/240-E27	8711500543899	121 gr	6	16 cm x 11 cm x 19.5 cm	8711500543615	543899 10
MASTER PL-Electronic 33W/827 E27 230-240V ICT	FBT 35/27/1b-230/240-E27	8711500659996	125 gr	6	16 cm x 11 cm x 21.5 cm	8727900210378	659996 10
MASTER PL-Electronic 33W/865 E27 230-240V ICT	FBT 35/65/2a-230/240-E27	8727900210354	125 gr	6	16 cm x 11 cm x 21.5 cm	8727900210361	210354 10

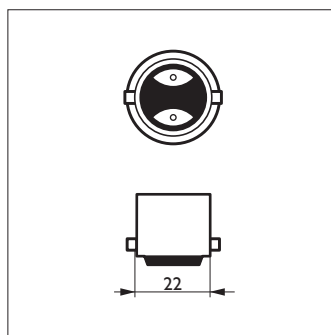
## Cap Base



E14



E27



B22





---

MASTER PL-E Dimmable 20W E27

### Product Description

- Non-covered energy-saving MASTER lamp of adjustable light output, applicable for use with standard wall dimmers in professional applications

### Product Features

- Long-life alternative to incandescent lamps
- Dimmable down to 10-15% of nominal light output
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime fifteen times longer than an incandescent lamp
- Equipped with the unique Philips bridged burner technology
- Very good lumen maintenance throughout lamp life
- Very low mercury content ( $\leq 2$  mg)
- European energy efficiency label A

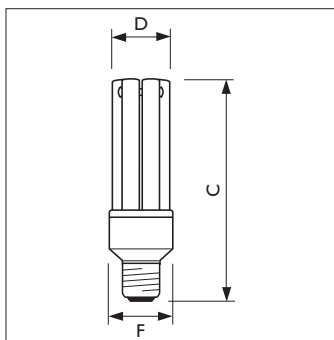
### Product Benefits

- Extra ambience creation when using MASTER PL-Electronic Dimmable lamp in dimmable mode
- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same rated light output
- Additional energy saving effect in dimming mode
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and / or where lamp replacement is difficult
- The unique bridged burner results in an excellent run-up time with very high initial light output and better thermal performance
- Lifetime independent of switching on-off
- Green product as best environmental choice in the CFL portfolio
- Lowest total cost of ownership

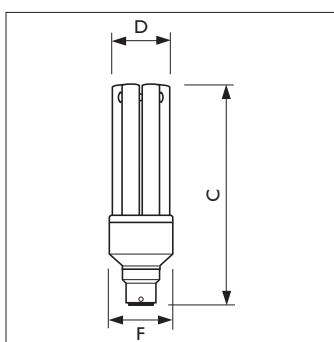
### Applications

- Designed to replace incandescent lamps in most professional and semi-professional applications, especially those equipped with triac dimmers
- Mainly indoor (e.g. hotels, restaurants, offices)
- Enclosed fixtures are required for outdoor application

**[www.philips.com/OEM](http://www.philips.com/OEM)**



MASTER PL-E Dimmable E27



MASTER PL-E Dimmable B22

Type	CMax	DMax	FMax
MASTER PL-Electronic Dimmable 20W/827 E27 ICT	147.2	39.8	48.0

Type	CMax	DMax	FMax
MASTER PL-Electronic Dimmable 20W/827 B22 ICT	145.7	39.8	48.0

### Technical data

Type	Voltage (V)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 50% failures (hrs)
MASTER PL-Electronic Dimmable 20W/827 E27/B22 ICT	230-240	20	A	Yes	15000

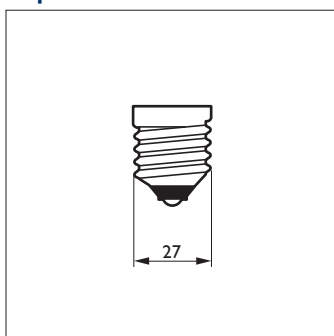
### Light data

Type	Luminous flux lamp (lm)	Luminous Efficacy Lamp (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER PL-Electronic Dimmable 20W/827 E27/B22 ICT	1200	60	Warm White	2700	82	460	425

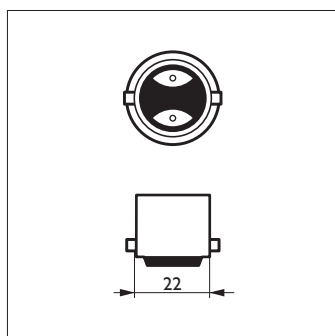
### Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8711500
MASTER PL-Electronic Dimmable 20W/827 B22 ICT	FBT-20/27/1b-230/240-B22	8711500660596	91 gr	6	16 cm x 11 cm x 15.8 cm	8711500660534	660596 10
MASTER PL-Electronic Dimmable 20W/827 E27 ICT	FBT-20/27/1b-230/240-E27	8711500660213	91 gr	6	16 cm x 11 cm x 15.8 cm	8711500660220	660213 10

### Cap Base



E27



B22



Tornado Mini

**More and brighter light, smallest in size**

- New premium range in 5W, 8W and 12W
- 20% more and brighter light and is 25% smaller in size when compared to the Genie range
- Perfect decorative fit for small and open luminaires

**Up to 80% energy saving**

- The new Tornado Mini range can replace 25W up to 60W incandescent bulbs for instant energy savings of up to 80%

**Long Life: 8 years**

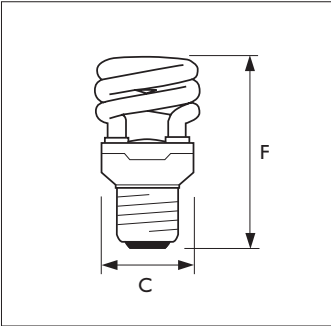
- Up to 8 times longer life when compared to normal incandescent lamps
- 1 year guarantee
- Safety fuse and flicker-free start

**Best environmental choice**

- The Tornado Mini range is fully RoHS compliant, conforming to the most strict environmental legislation in the world

**Applications**

- The Tornado Mini range is widely used to replace incandescent light bulbs in all kinds of applications, especially where intensive light output is required
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers, electronic switches or remote controls



Tornado Mini 5W-12W

Type	C	F
Tornado Mini 5W	40	77
Tornado Mini 8W	40	84
Tornado Mini 12W	40	91

## Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Lumen Output (Lm)	Luminous Efficacy (Lm/W)	Rendering Index (R <sub>a</sub> )	Box quantity pcs	Order Code 8710163
<b>Cool Daylight</b>										
Tornado Mini	5W	B22	220-240V	50-60Hz	6500	285	57	80	12	39441115
Tornado Mini	5W	E14	220-240V	50-60Hz	6500	285	57	80	12	39447315
Tornado Mini	5W	E27	220-240V	50-60Hz	6500	285	57	80	12	39435015
Tornado Mini	8W	B22	220-240V	50-60Hz	6500	475	59	80	12	39443515
Tornado Mini	8W	E14	220-240V	50-60Hz	6500	475	59	80	12	39449715
Tornado Mini	8W	E27	220-240V	50-60Hz	6500	475	59	80	12	39437415
Tornado Mini	12W	B22	220-240V	50-60Hz	6500	685	62	80	12	39445915
Tornado Mini	12W	E14	220-240V	50-60Hz	6500	685	62	80	12	39451015
Tornado Mini	12W	E27	220-240V	50-60Hz	6500	685	62	80	12	39439815
<b>Warm White</b>										
Tornado Mini	5W	B22	220-240V	50-60Hz	2700	300	60	82	12	39440415
Tornado Mini	5W	E14	220-240V	50-60Hz	2700	300	60	82	12	39446615
Tornado Mini	5W	E27	220-240V	50-60Hz	2700	300	60	82	12	39434315
Tornado Mini	8W	B22	220-240V	50-60Hz	2700	500	62	82	12	39442815
Tornado Mini	8W	E14	220-240V	50-60Hz	2700	500	62	82	12	39448015
Tornado Mini	8W	E27	220-240V	50-60Hz	2700	500	62	82	12	39436715
Tornado Mini	12W	B22	220-240V	50-60Hz	2700	725	65	80	12	39444215
Tornado Mini	12W	E14	220-240V	50-60Hz	2700	725	65	82	12	39450315
Tornado Mini	12W	E27	220-240V	50-60Hz	2700	725	65	82	12	39438115



Tornado

**More and brighter light, decorative shape**

- Distinct, decorative shape, creating a modern look
- The spiral shape allows for more and better light distribution, offering up to 20% more and brighter light compared to Genie energy savers

**Up to 80% energy saving**

- The Tornado range can replace 60W up to 125W incandescent lamps for energy savings up to 80%

**Long Life: 8 years**

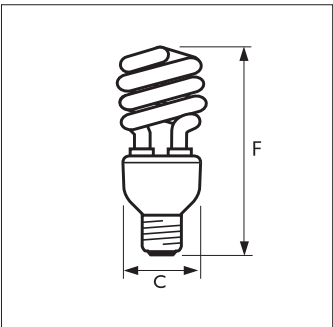
- Up to 8 times longer when compared to incandescent lamps
- 1 year guarantee

**Best environmental choice**

- The Tornado range is fully RoHS compliant, conforming to the most strict environmental legislation in the world

**Applications**

- The Tornado range is widely used to replace incandescent light bulbs in all kinds of applications, especially where intensive light output is required
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers, electronic switches or remote controls



Tornado

Type	C	F
Tornado 11W	44	700
Tornado 15W	44	1000
Tornado 20W	48	1350
Tornado 23W	48	1550

## Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Rendering Index (R <sub>a</sub> )	Incandescent Equivalent	Box quantity pcs	Order Code 8710163
<b>Cool Daylight</b>											
Tornado	11W	B22	220-240V	50-60Hz	6500	660	60	80	60W	12	39657615
Tornado	11W	E27	220-240V	50-60Hz	6500	660	60	80	60W	12	39653815
Tornado	15W	E27	220-240V	50-60Hz	6500	950	60	80	75W	12	39655215
Tornado	15W	B22	220-240V	50-60Hz	6500	950	60	80	75W	12	39659015
Tornado	20W	E27	220-240V	50-60Hz	6500	1250	63	80	100W	12	39661315
Tornado	20W	B22	220-240V	50-60Hz	6500	1250	63	80	100W	12	39665115
Tornado	23W	E27	220-240V	50-60Hz	6500	1450	63	80	125W	12	39663715
Tornado	23W	B22	220-240V	50-60Hz	6500	1450	63	80	125W	12	39667515
<b>Warm White</b>											
Tornado	11W	E27	220-240V	50-60Hz	2700	700	64	82	60W	12	39652115
Tornado	11W	B22	220-240V	50-60Hz	2700	700	64	82	60W	12	39656915
Tornado	15W	E27	220-240V	50-60Hz	2700	1000	63	82	75W	12	39654515
Tornado	15W	B22	220-240V	50-60Hz	2700	1000	63	82	75W	12	39658315
Tornado	20W	E27	220-240V	50-60Hz	2700	1350	67	82	100W	12	39660615
Tornado	20W	B22	220-240V	50-60Hz	2700	1350	67	82	100W	12	39664415
Tornado	23W	E27	220-240V	50-60Hz	2700	1550	67	80	125W	12	39662015
Tornado	23W	B22	220-240V	50-60Hz	2700	1550	67	82	125W	12	39666815





High Lumen Twister

#### High Lumen output for professional use

- The MASTER Ecotone High Twister is the perfect energy saving solutions to replace conventional HPL and ML lamps offering brighter and better quality of light

#### Up to 70% energy saving

- The Twister range provides up to 70% energy savings when compared to ML 160W and 250W and for 20% energy savings and 70% better colour rendering when compared to HPL-N 80W and 125W

#### Long Life: 10 Years

- Long and reliable life of 10000 hrs, with a stable and constant light output

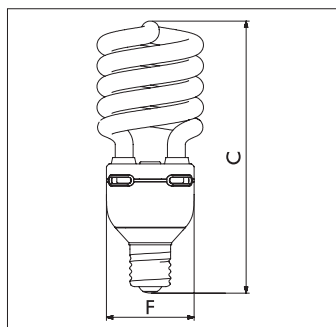
#### Best Environmental choice

- Fully RoHS compliant conforming to the most strict environmental legislation in the world

#### Applications

- Designed for professional applications in shops, industry and outdoor
- Enclosed fixtures
- Not suitable for dimmers, electronic switches or electronic devices/ remote controls
- Safe in use, fully compliant to IEC and EMC Standards, HPF > 0.95

[www.philips.com/OEM](http://www.philips.com/OEM)



High Lumen Twister

Type	C	F
High Lumen Twister 45W	204	80
High Lumen Twister 65W	220	80
High Lumen Twister 80W	261	88

## Preferred selection

Type	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Colour Temp. (K)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Colour Rendering Index (Ra)	Equivalent light output to	Box quantity	Order Code  8710163
<b>Cool Daylight</b>										
MASTER ECOTONE High Lumen Twister	45W	E27	220-240V	6500	2850	67	80	ML 160W-HPL-N 80W	6	21266110
MASTER ECOTONE High Lumen Twister	65W	E27	220-240V	6500	4000	65	80	ML 160W-250W-HPL-N 80W	6	21268510
MASTER ECOTONE High Lumen Twister	80W	E40	220-240V	6500	5300	66	80	ML 250W-HPL-N 125W	6	15963810
<b>Cool White</b>										
MASTER ECOTONE High Lumen Twister	45W	E27	220-240V	4000	3000	67	82	ML 160W-HPL-N 80W	6	21265410
MASTER ECOTONE High Lumen Twister	65W	E27	220-240V	4000	4000	65	82	ML 160W-250W-HPL-N 80W	6	21267810
MASTER ECOTONE High Lumen Twister	80W	E40	220-240V	4000	5600	70	82	ML 250W-HPL-N 125W	6	15962110



Genie 14W/18W

**Small size, fits any lamp shade in your home**

- The Genie range is the top choice due to its small and compact size
- 20% smaller when compared to the Essential range, for perfect fit in small luminaires
- New lamp cap design for a refined, more sophisticated appearance with embossed Philips marking

**Up to 80% energy saving**

- The Genie range can replace the full incandescent range from 25W up to 100W for energy saving of up to 80%, whilst maintaining a high quality of light

**Long Life: 8 years**

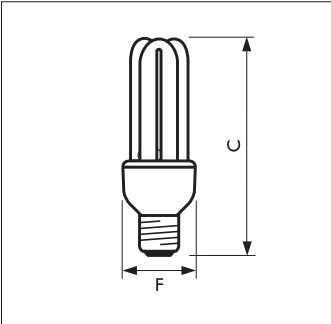
- Up to 8 times longer when compared to normal incandescent lamps
- 1 year guarantee
- Safety fuse for instant and flickerfree start

**Best environmental choice**

- The Genie range is fully RoHS compliant, conforming to the most strict environmental legislation in the world

**Applications**

- The Genie range is widely used to replace incandescent light bulbs in indoor fixtures, table fixtures and other consumer or (semi) professional applications that require small sized lamps
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers, electronic switches or remote controls
- Safety fuse for instant and flicker free start



Genie

Type	C	F
Genie 5W	105	37
Genie 8W	105	44
Genie 11W	115	44
Genie 14W	130	44
Genie 18W	133	48

## Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Luminous Flux (Lm)	Efficacy (Lm/W)	Colour Rendering Index (R <sub>a</sub> )	Incandescent Equivalent	Box quantity	Order Code 8710163
<b>Cool Daylight</b>											
Genie	5W	E27	220-240V	50-60Hz	6500	235	47	80	25W	12	39357534
Genie	5W	E14	220-240V	50-60Hz	6500	235	47	80	25W	12	39361234
Genie	5W	B22	220-240V	50-60Hz	6500	235	47	80	25W	12	39359934
Genie	8W	E27	220-240V	50-60Hz	6500	415	52	80	40W	12	39363634
Genie	8W	E14	220-240V	50-60Hz	6500	415	52	80	40W	12	39367434
Genie	8W	B22	220-240V	50-60Hz	6500	415	52	80	40W	12	39365034
Genie	11W	E14	220-240V	50-60Hz	6500	600	54	80	60W	12	39373534
Genie	11W	E27	220-240V	50-60Hz	6500	600	54	80	60W	12	39369834
Genie	11W	B22	220-240V	50-60Hz	6500	600	54	80	60W	12	39371134
Genie	14W	E27	220-240V	50-60Hz	6500	790	56	80	75W	12	39375934
Genie	14W	B22	220-240V	50-60Hz	6500	790	56	80	75W	12	39377334
Genie	18W	E27	220-240V	50-60Hz	6500	1040	58	80	100W	12	39379734
Genie	18W	B22	220-240V	50-60Hz	6500	1040	58	80	100W	12	39381034
<b>Warm White</b>											
Genie	5W	E27	220-240V	50-60Hz	2700	250	50	82	25W	12	39356834
Genie	5W	E14	220-240V	50-60Hz	2700	250	50	82	25W	12	39360534
Genie	5W	B22	220-240V	50-60Hz	2700	250	50	82	25W	12	39358234
Genie	8W	E27	220-240V	50-60Hz	2700	440	55	82	40W	12	39362934
Genie	8W	E14	220-240V	50-60Hz	2700	440	55	82	40W	12	39366734
Genie	8W	B22	220-240V	50-60Hz	2700	440	55	82	40W	12	39364334
Genie	11W	E14	220-240V	50-60Hz	2700	610	55	82	60W	12	39372834
Genie	11W	E27	220-240V	50-60Hz	2700	610	55	82	60W	12	39368134
Genie	11W	B22	220-240V	50-60Hz	2700	610	55	82	60W	12	39370434
Genie	14W	E27	220-240V	50-60Hz	2700	840	60	82	75W	12	39374234
Genie	14W	B22	220-240V	50-60Hz	2700	840	60	82	75W	12	39376634
Genie	18W	E27	220-240V	50-60Hz	2700	1100	61	82	100W	12	39378034
Genie	18W	B22	220-240V	50-60Hz	2700	1100	61	82	100W	12	39380334



Genie Long Life 18W

**Top-level performance, High switches**

- Compact high quality energy saver for extra long and reliable performance
- Frequent turning on/off, up to 15000 times for long life
- Up to 80% energy saving
- The Genie Long Life range can replace 25W up to 75W incandescent equivalents for energy savings of up to 80%

**Long life: 12 Years**

- Up to 12 times longer when compared to incandescent lamp, for less maintenance and replacements costs
- 1 year guarantee
- Safety fuse and flicker free start

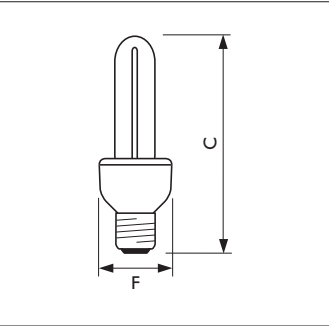
**Best environmental choice**

- The Genie Long Life range is fully RoHS compliant conforming to the most strict environmental legislation in the world

**Applications**

- The Genie Long Life range is widely used to replace incandescent lamp
- The long lifetime and 15000 switching cycles is ideal for applications where lamps are frequently switched on/off. Especially suitable for hotel applications like lobby, rooms, corridors, restaurant
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers

[www.philips.com/OEM](http://www.philips.com/OEM)



Genie Long Life

Typ e	C	F
Genie Long Life E27/B22 5W	105	37
Genie Long Life E27/B22 8W	105	44
Genie Long Life E27/B22 11W	115	44
Genie Long Life E27/B22 14W	130	44
Genie Long Life E27/B22 18W	133	48

## Preferred selection

Type	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Colour Rendering Index (R <sub>a</sub> )	Incandescent Equivalent	Box quantity pcs	Order Code 8710163
<b>Cool Daylight</b>											
Genie Long Life	5W	E27	220-240V	50-60Hz	6500	235	47	80	25W	48	39705415
Genie Long Life	5W	B22	220-240V	50-60Hz	6500	235	47	80	25W	48	39713915
Genie Long Life	8W	E27	220-240V	50-60Hz	6500	415	52	80	40W	48	39707815
Genie Long Life	8W	B22	220-240V	50-60Hz	6500	415	52	80	40W	48	39715315
Genie Long Life	11W	E27	220-240V	50-60Hz	6500	600	54	80	60W	48	39709215
Genie Long Life	11W	B22	220-240V	50-60Hz	6500	600	54	80	60W	48	39717715
Genie Long Life	14W	E27	220-240V	50-60Hz	6500	790	56	80	75W	48	39711515
Genie Long Life	14W	B22	220-240V	50-60Hz	6500	790	56	80	75W	48	39719115
Genie Long Life	18W	E27	220-240V	50-60Hz	6500	1040	58	80	100W	48	40151515
Genie Long Life	18W	B22	220-240V	50-60Hz	6500	1040	58	80	100W	48	40153915
<b>Warm White</b>											
Genie Long Life	5W	E27	220-240V	50-60Hz	2700	250	50	82	25W	48	39704715
Genie Long Life	5W	B22	220-240V	50-60Hz	2700	250	50	82	25W	48	39712215
Genie Long Life	8W	E27	220-240V	50-60Hz	2700	440	55	82	40W	48	39706115
Genie Long Life	8W	B22	220-240V	50-60Hz	2700	440	55	82	40W	48	39714615
Genie Long Life	11W	E27	220-240V	50-60Hz	2700	610	55	82	60W	48	39708515
Genie Long Life	11W	B22	220-240V	50-60Hz	2700	610	55	82	60W	48	39716015
Genie Long Life	14W	E27	220-240V	50-60Hz	2700	840	60	82	75W	48	39710815
Genie Long Life	14W	B22	220-240V	50-60Hz	2700	840	60	82	75W	48	39718415
Genie Long Life	18W	E27	220-240V	50-60Hz	2700	1100	61	82	100W	48	40150815
Genie Long Life	18W	E27	220-240V	50-60Hz	2700	1100	61	82	100W	48	40152215





---

MASTER PL-E Polar 15W E27

### Product Description

- Covered energy-saving MASTER lamps for professional use in outdoor applications

### Product Features

- Long-life alternative to incandescent lamps
- Amalgam technology enabling excellent, virtually constant lumen performance in a wide range of ambient temperatures
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime fifteen times longer than an incandescent lamp
- Very good lumen maintenance throughout the lifetime of the lamp
- Complete range equipped with the unique Philips bridged burner technology
- Very low mercury content ( $\leq 2$  mg)
- European energy efficiency label A for the complete range

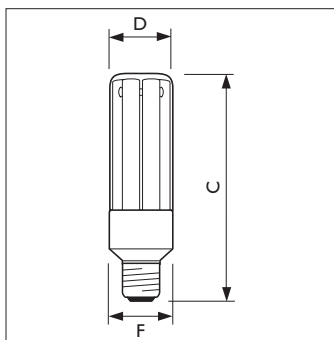
### Product Benefits

- Very good performance in the lower ambient temperature range (the lamp gives no less than 90% of nominal lumen in temperatures between  $-20$  and  $+40$  °C), rendering the lamp especially suitable for outdoor applications
- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and / or where lamp replacement is difficult
- Lifetime independent of switching on-off
- Green product as best environmental choice in the CFL portfolio
- Lowest total cost of ownership

### Applications

- Designed to replace incandescent lamps in most professional and semi- professional applications
- Outdoor (e.g. outdoor hotel lighting, parking lots, restaurant/café gardens, patios, garden / lawn lighting)
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices

**[www.philips.com/OEM](http://www.philips.com/OEM)**



MASTER PL-E Polar E27

Type	CMax	DMax	FMax
MASTER PL-Electronic Polar 15W/827 E27 1CT	132.0	50.8	48.0
MASTER PL-Electronic Polar 20W/827 E27 1CT	143.0	50.8	48.0
MASTER PL-Electronic Polar 23W/827 E27 1CT	158.0	50.8	48.0

### Technical data

Type	Voltage (V)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 50% failures (hrs)
MASTER PL-Electronic Polar 15W/827 E27 1CT	230-240	15	A	No	15000
MASTER PL-Electronic Polar 20W/827 E27 1CT	230-240	20	A	No	15000
MASTER PL-Electronic Polar 23W/827 E27 1CT	230-240	23	A	No	15000

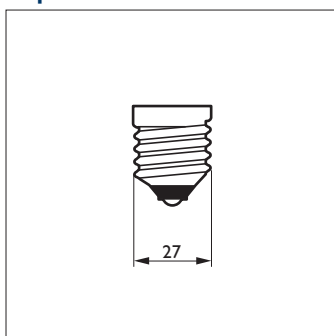
### Light data

Type	Luminous flux lamp (lm)	Luminous Efficacy Lamp (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER PL-Electronic Polar 15W/827 E27 1CT	875	56	Warm White	2700	82	457	416
MASTER PL-Electronic Polar 20W/827 E27 1CT	1200	64	Warm White	2700	82	457	416
MASTER PL-Electronic Polar 23W/827 E27 1CT	1485	63	Warm White	2700	82	457	416

### Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8711500
MASTER PL-Electronic Polar 15W/827 E27 1CT	FBT-15/27/1b-230/240-E27	8711500660459	117 gr	6	18.1 cm x 12.3 cm x 15.8 cm	8711500660527	660459 10
MASTER PL-Electronic Polar 20W/827 E27 1CT	FBT-20/27/1b-230/240-E27	8711500660039	130 gr	6	18.1 cm x 12.3 cm x 16 cm	8711500831583	660039 10
MASTER PL-Electronic Polar 23W/827 E27 1CT	FBT-23/27/1b-230/270-E27	8711500660053	143 gr	6	18.1 cm x 12.3 cm x 18.4 cm	8711500831606	660053 10

### Cap Base



E27



MASTER PL-E Automatic 11W/15W E27 Pri

### Product Description

- Covered energy-saving MASTER lamp for (semi-) professional use with built-in light sensor, switches on when it is dark, switches off in daylight

### Product Features

- Long-life alternative to incandescent lamps, once connected to mains electricity it automatically switches on when it is dark and switches off in daylight
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime fifteen times longer than an incandescent lamp
- European energy efficiency labelling class A
- Very good lumen maintenance throughout the lifetime of the lamp
- Virtually constant light output (>90%) over recommended temperature range
- Very low mercury content ( $\leq 2$  mg)

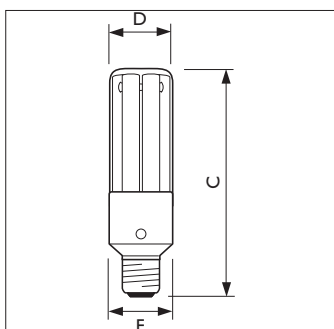
### Product Benefits

- Simplicity of use; once installed it switches on-off automatically at certain daylight level
- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and / or where lamp replacement is difficult
- Lifetime independent of switching on-off
- Green product as best environmental choice in the CFL portfolio
- Lowest total cost of ownership

### Application

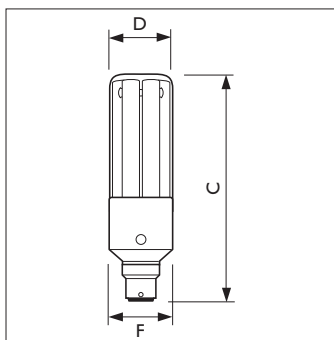
- Designed to replace incandescent lamps in most professional and semi-professional applications
- Mainly outdoor (e.g. outdoor hotel lighting, parking lots, restaurant / café gardens, patios, garden / lawn lighting)
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices

[www.philips.com/OEM](http://www.philips.com/OEM)



MASTER PL-E Automatic E27

Type	CMax	DMax	FMax
MASTER PL-Electronic Automatic 11W/827 E27 1CT	141.0	50.8	48.0



MASTER PL-E Automatic B22

Type	CMax	DMax	FMax
MASTER PL-Electronic Automatic 11W/827 B22 ICT	139.5	50.8	48.0

### Technical data

Type	Voltage (V)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 50% failures (hrs)
MASTER PL-Electronic Automatic 11W/827 E27/B22 ICT	230-240	11	A	No	15000
MASTER PL-Electronic Automatic 15W/827 E27/B22 ICT	230-240	15	A	No	15000

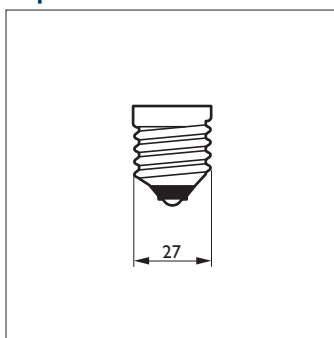
### Light data

Type	Luminous Flux Lamp EM (lm)	Luminous Efficacy Lamp EM (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER PL-Electronic Automatic 11W/827 E27/B22 ICT	600	54	Warm White	2700	82	457	416
MASTER PL-Electronic Automatic 15W/827 E27/B22 ICT	900	60	Warm White	2700	82	457	416

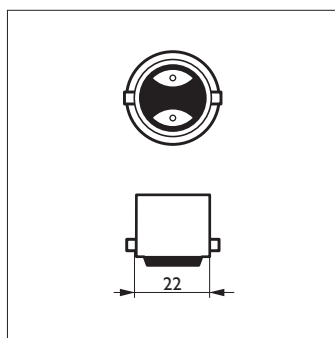
### Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EOC 8711500
MASTER PL-Electronic Automatic 11W/827 B22 ICT	FBT-11/27/1b-230/240-B22	8711500260595	117 gr	6	16.4 cm x 11.3 cm x 16.9 cm	260595 10
MASTER PL-Electronic Automatic 11W/827 E27 ICT	FBT-11/27/1b-230/240-E27	8711500260588	117 gr	6	16.4 cm x 11.3 cm x 16.9 cm	260588 10
MASTER PL-Electronic Automatic 15W/827 B22 ICT	FBT-15/27/1b-230/240-B22	8711500260618	130 gr	6	16.4 cm x 11.3 cm x 16.9 cm	260618 10
MASTER PL-Electronic Automatic 15W/827 E27 ICT	FBT-15/27/1b-230/240-E27	8711500260601	130 gr	6	16.4 cm x 11.3 cm x 16.9 cm	260601 10

### Cap Base



E27



B22



Ambiance Standard Shape

#### Attractive modern design in a classic shape

- The Ambiance range offers a decorative appeal to complement elegant, modern light fittings in homes, restaurants and hotels
- An elegant cover for a comfortable low glare light that is soft on the eyes
- In a familiar standard shape, similar in size to their incandescent equivalent

#### Up to 80% energy saving

- The Ambiance range with classic shape is an ideal replacement for incandescent bulbs of 25W up to 75W, saving up to 80% on energy consumption

#### Long Life: 6 Years

- 6000 hrs. Up to 6 times longer when compared to incandescent lamps
- 1 year guarantee, safety fuse and flicker free start

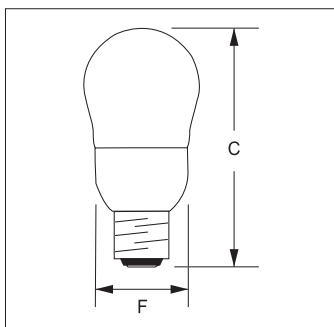
#### Best Environmental choice

- The Ambiance Standard range is fully RoHS compliant conforming to the most strict environmental legislation in the world

#### Applications

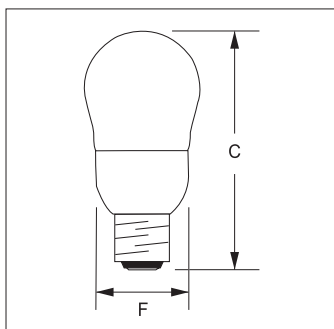
- Designed for replacement of incandescent lamps in standard shape for decorative and functional indoor applications
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices

[www.philips.com/OEM](http://www.philips.com/OEM)



Ambiance 5W-11W

Type	C	F
5W	106	45
8W	106	45
11W	106	45



Ambiance 14W-18W

Type	C	F
14W	106	50
18W	106	50

### Preferred selection

Type	Lamp Wattage	Cap/ Base*	Frequency	Colour Temperature	Colour Rendering Index (Ra)	Light Output	Efficacy	Dimmable	Order Code
	(W)		(Hz)	(K)		(Lumen)	(Lm/W)		8710163
<b>Cool Daylight</b>									
Ambiance	5W	E27	50-60Hz	6500	80	190	38	No	40163815
Ambiance	5W	B22	50-60Hz	6500	80	190	38	No	40165215
Ambiance	8W	E27	50-60Hz	6500	80	380	47	No	40167615
Ambiance	8W	B22	50-60Hz	6500	80	380	47	No	40169015
Ambiance	11W	E27	50-60Hz	6500	80	540	49	No	40171315
Ambiance	11W	B22	50-60Hz	6500	80	540	49	No	40173715
Ambiance	14W	E27	50-60Hz	6500	80	780	56	No	40211610
Ambiance	14W	B22	50-60Hz	6500	80	780	56	No	40213010
Ambiance	18W	E27	50-60Hz	6500	80	1000	56	No	40215410
Ambiance	18W	B22	50-60Hz	6500	80	1000	56	No	40217810
<b>Warm White</b>									
Ambiance	5W	E27	50-60Hz	2700	80	190	38	No	40162115
Ambiance	5W	B22	50-60Hz	2700	80	190	38	No	40164515
Ambiance	8W	E27	50-60Hz	2700	80	370	46	No	40166915
Ambiance	8W	B22	50-60Hz	2700	80	370	46	No	40168315
Ambiance	11W	E27	50-60Hz	2700	80	570	51	No	40170615
Ambiance	11W	B22	50-60Hz	2700	80	570	51	No	40172015
Ambiance	14W	E27	50-60Hz	2700	80	820	59	No	40210910
Ambiance	14W	B22	50-60Hz	2700	80	820	59	No	40212310
Ambiance	18W	E27	50-60Hz	2700	80	1050	58	No	40214710
Ambiance	18W	B22	50-60Hz	2700	80	1050	58	No	40216110





Ambiance Coloured

**A choice of very attractive colours**

- Coloured decorative energy-saving range is available in four bright colours: red, green, yellow and blue
- For original lighting effects and decorative ambiances for a multitude of occasions and applications

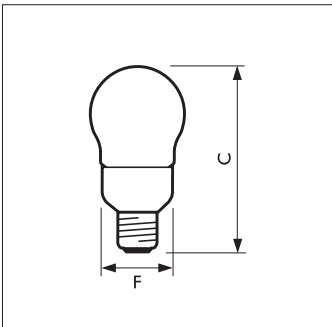
**Colours that save up to 80% on energy**

- The Ambiance Coloured range brings you both colours and energy savings up to 80%
- Long reliable life up to 6000 hrs which is up to 6 times longer life compared to normal incandescent lamps

**Suitable for many application areas**

- Ambiance Coloured energy savers can be used in a wide range of decorative applications, both outdoor and indoor; e.g. streets, facades, shopping centres, parties and special celebrations
- Not suitable for dimming and electronic devices

[www.philips.com/OEM](http://www.philips.com/OEM)



Ambiance Coloured

Type	C	F
Ambiance Coloured	124	44

**Preferred selection**

Type	Cap/ Base	Voltage (V)	Bulb Shape	Frequency (Hz)	Colour	Box quantity	Dimmable	Order Code 8710163
Ambiance Coloured 11W	E27	220-240	A60	50-60	Blue	6	No	15728310
Ambiance Coloured 11W	B22	220-240	A60	50-60	Blue	6	No	21019315
Ambiance Coloured 11W	E27	220-240	A60	50-60	Green	6	No	15727610
Ambiance Coloured 11W	B22	220-240	A60	50-60	Green	6	No	21018615
Ambiance Coloured 11W	E27	220-240	A60	50-60	Red	6	No	15725210
Ambiance Coloured 11W	B22	220-240	A60	50-60	Red	6	No	21016215
Ambiance Coloured 11W	E27	220-240	A60	50-60	Yellow	6	No	15726910
Ambiance Coloured 11W	B22	220-240	A60	50-60	Yellow	6	No	21017915



Ambiance Candle

## Attractive modern design in a Candle shape

- The Ambiance range offers a high decorative appeal to complement elegant, modern light fittings in homes, restaurants and hotels
- The elegant covered energy saver creates a comfortable low glare light that is soft on the eyes
- Available in a familiar Candle shape, similar in size to their incandescent equivalent

## Up to 80% energy saving

- An ideal replacement for incandescent candles of 25W and 40W, saving up to 80% on energy consumption

## Long Life: 6 years

- A long and reliable life of 6000 hrs, which is up to 6 times longer when compared to incandescent lamps
- 1 year guarantee, safety fuse and flicker free start

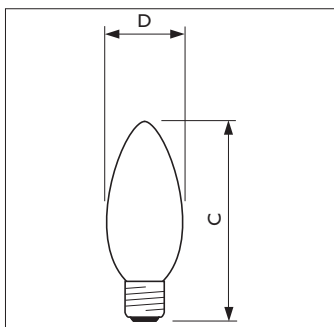
## Best Environmental choice

- The Ambiance Candle range is fully RoHS compliant conforming to the most strict environmental legislation in the world

## Applications

- Designed for replacement of incandescent lamps in standard shape in decorative and functional indoor applications
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices

[www.philips.com/OEM](http://www.philips.com/OEM)



Ambiance Candle

Type	C	D
Ambiance Candle 5W	117	39
Ambiance Candle 8W	117	39

## Preferred selection

Type	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Colour Rendering Index	Light Output (Lumen)	Efficacy (Lm/W)	Dimmable	Order Code  8710163
Cool Daylight										
Ambiance Candle	5W	E14	220-240V	50-60Hz	6500	80	180	36	No	40184315
Ambiance Candle	5W	E27	220-240V	50-60Hz	6500	80	180	36	No	40175115
Ambiance Candle	5W	B22	220-240V	50-60Hz	6500	80	180	36	No	40177515
Ambiance Candle	8W	E14	220-240V	50-60Hz	6500	80	350	44	No	40185015
Ambiance Candle	8W	E27	220-240V	50-60Hz	6500	80	350	44	No	40181215
Ambiance Candle	8W	B22	220-240V	50-60Hz	6500	80	350	44	No	40183615
Warm White										
Ambiance Candle	5W	E14	220-240V	50-60Hz	2700	82	190	38	No	40178215
Ambiance Candle	5W	E27	220-240V	50-60Hz	2700	82	190	38	No	40174415
Ambiance Candle	5W	B22	220-240V	50-60Hz	2700	82	190	38	No	40176815
Ambiance Candle	8W	E14	220-240V	50-60Hz	2700	82	370	46	No	40179915
Ambiance Candle	8W	E27	220-240V	50-60Hz	2700	82	370	46	No	40180515
Ambiance Candle	8W	B22	220-240V	50-60Hz	2700	82	370	46	No	40182915



Essential 18W

#### Good value for money

- Trusted quality energy savers for best performance
- Choice of light colours
- New lamp cap design for a refined, more sophisticated appearance with embossed Philips marking

#### Up to 80% energy saving

- The Essential range can replace the full incandescent range from 40W up to 125W up to 80% energy saving

#### Long Life: 6 years

- Long reliable life of up to 6000 hrs, which is 6 times longer when compared to standard incandescent lamps
- 1 year guarantee
- Safety fuse for flicker free start

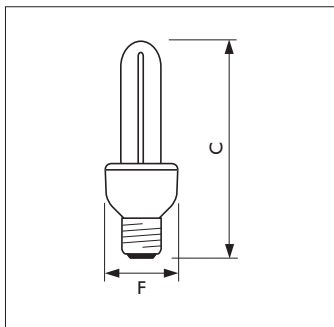
#### Best environmental choice

- The Essential range is fully RoHS compliant, conforming to the most strict environmental legislation in the world

#### Applications

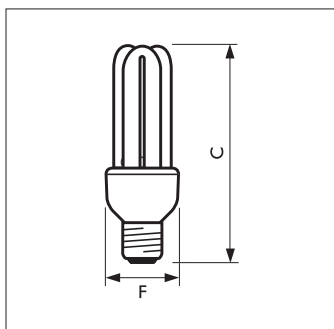
- The Essential range is widely used to replace incandescent light
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers, electronic switches or remote controls

[www.philips.com/OEM](http://www.philips.com/OEM)



Essential 8W-14W

Type	C	F
	max.	max.
Essential 8W	140	44
Essential 11W	155	44
Essential 14W	170	44



Essential 18W-23W

Type	C	F
	max.	max.
Essential 18W	165	52
Essential 23W	175	52

## Preferred selection

Type	Lamp Wattage	Cap/ Base	Lamp Voltage	Frequency	Colour Temperature	Luminous Flux	Luminous Efficacy	Colour Rendering Index (Ra)	Equivalent light of ordinary Incandescent	Box quantity	Order Code
	(W)		(V)	(Hz)	(K)	(Lm)	(Lm/W)				8710163
<b>Cool Daylight</b>											
Essential	8W	E27	220-240V	50-60Hz	6500	440	55	80	40W	12	39591315
Essential	8W	B22	220-240V	50-60Hz	6500	440	55	80	40W	12	39593715
Essential	11W	E27	220-240V	50-60Hz	6500	620	56	80	60W	12	39595115
Essential	11W	B22	220-240V	50-60Hz	6500	620	56	80	60W	12	39597515
Essential	14W	E27	220-240V	50-60Hz	6500	820	59	80	75W	12	39599915
Essential	14W	B22	220-240V	50-60Hz	6500	820	59	80	75W	12	39601915
Essential	18W	E27	220-240V	50-60Hz	6500	1100	61	80	100W	12	39603315
Essential	18W	B22	220-240V	50-60Hz	6500	1100	61	80	100W	12	39605715
Essential	23W	E27	220-240V	50-60Hz	6500	1420	62	80	125W	12	39607115
Essential	23W	B22	220-240V	50-60Hz	6500	1420	62	80	125W	12	39609515
<b>Warm White</b>											
Essential	8W	E27	220-240V	50-60Hz	2700	460	58	82	40W	12	39590615
Essential	8W	B22	220-240V	50-60Hz	2700	460	58	82	40W	12	39592015
Essential	11W	E27	220-240V	50-60Hz	2700	650	59	82	60W	12	39594415
Essential	11W	B22	220-240V	50-60Hz	2700	650	59	82	60W	12	39596815
Essential	14W	E27	220-240V	50-60Hz	2700	860	61	82	75W	12	39598215
Essential	14W	B22	220-240V	50-60Hz	2700	860	61	82	75W	12	39600215
Essential	18W	E27	220-240V	50-60Hz	2700	1170	65	82	100W	12	39602615
Essential	18W	B22	220-240V	50-60Hz	2700	1170	65	82	100W	12	39604015
Essential	23W	E27	220-240V	50-60Hz	2700	1460	63	82	125W	12	39606415
Essential	23W	B22	220-240V	50-60Hz	2700	1460	63	82	125W	12	39608815





Essential Long Life

#### Good value for money

- Trusted quality energy savers for long and reliable performance
- Frequent turning on/off up to 15000 times for long life
- Choice of colours

#### Up to 80% energy saving

- The Essential Long Life range is available in 20W and 23W in high voltage replacing 100W and 125W incandescent equivalents for up to 80% energy saving

#### Long life: 12 Years

- Long and reliable life of 12000 hrs, which is up to 12 times longer when compared to incandescent lamps
- 1 year guarantee
- Safety fuse and flicker free start

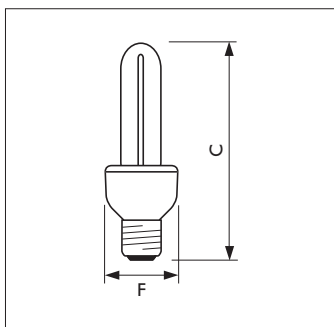
#### Best Environmental choice

- The Essential Long Life range is fully RoHS compliant conforming to the most strict environmental legislation in the world

#### Applications

- The Essential Long Life range is widely used to replace incandescent lamp
- The long life time and 15000 switching cycles is ideal for applications where lamps are frequently switched on and off
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers and electronic devices

[www.philips.com/OEM](http://www.philips.com/OEM)



Essential Long Life

Type	C	F
	max.	max.
Essential Long Life 20W	165	52
Essential Long Life 23W	175	52

## Preferred selection

Type	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Luminous Flux (lm)	Luminous Efficacy (lm/w)	Colour Rendering Index (Ra)	Incandescent Equivalent	Box quantity	Order Code  8710163
<b>Cool Daylight</b>											
Essential Long Life	20W	E27	220-240V	50-60Hz	6500	1200	62	80	100W	12	39689715
Essential Long Life	20W	B22	220-240V	50-60Hz	6500	1200	62	80	100W	12	39693415
Essential Long Life	23W	E27	220-240V	50-60Hz	6500	1420	62	80	125W	12	39691015
Essential Long Life	23W	B22	220-240V	50-60Hz	6500	1420	62	80	125W	12	39695815
<b>Warm White</b>											
Essential Long Life	20W	E27	220-240V	50-60Hz	2700	1250	65	82	100W	12	39688015
Essential Long Life	20W	B22	220-240V	50-60Hz	2700	1250	65	82	100W	12	39692715
Essential Long Life	23W	E27	220-240V	50-60Hz	2700	1460	63	82	125W	12	39690315
Essential Long Life	23W	B22	220-240V	50-60Hz	2700	1460	63	82	125W	12	39694115



PL E Refl GU10 R50

**Product Description**

- Energy-saving lamp approximating the shape of a R50 incandescent reflector or a GU10-based halogen lamp

**Product Features**

- Fluorescent, directional light source
- Longer-life alternative to halogen or incandescent lamps
- Average lifetime up to five times longer than a halogen lamp, up to ten times longer than an incandescent reflector
- Unlimited on-off switches in most common applications

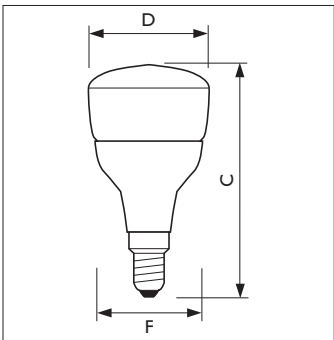
**Product Benefits**

- Saving on energy bills due to lower energy consumption and lower heat emission compared to incandescent / halogen lamps
- Replacements less frequent, meaning less maintenance costs
- Cost of ownership lower than for incandescent / halogen reflectors

**Application**

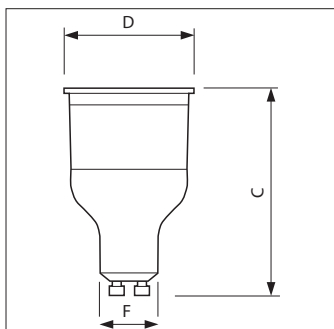
- Designed for incandescent reflector (R50) or GU10-based halogen replacement in professional (hotels, restaurants, shops) or home applications
- Most suitable for places where R50 GU10 is used as general light source (less suitable for accent lighting applications)
- Not suitable for dimming and electronic devices

[www.philips.com/OEM](http://www.philips.com/OEM)



PL E Refl E14 R50

Type	CMax	DMax	FMax
PL-Electronic Reflector R50 7W/WW E14 230-240V ICT	97,0	50,8	48,1



PL E Refl GU10 R50

Type	CMax	DMax	FMax
PL-Electronic Reflector R50 7W WW GU10 230-240V ICT	82.0	50.0	21.9

### Technical data

Type	Voltage (V)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 50% failures (hrs)
PL-Electronic Reflector R50 7W WW E14/GU10 230-240V ICT	230-240	7	-	No	10000

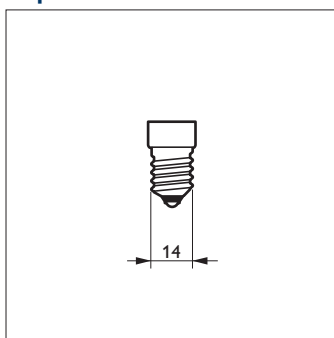
### Light data

Type	Luminous flux lamp (lm)	Luminous Efficacy Lamp (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
PL-Electronic Reflector R50 7W WW E14/GU10 230-240V ICT	160	22	Warm White	2700	82	465	420

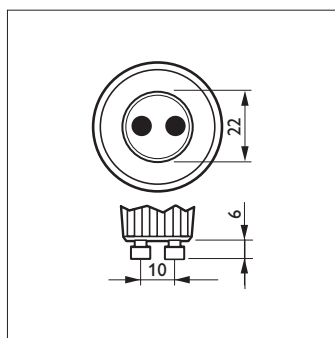
### Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8727900
PL-Electronic Reflector R50 7W WW E14 230-240V ICT	FBT-20/27/1b-230/240-E14	8727900213157	54 gr	10	26.7 cm x 11.2 cm x 10.7 cm	8727900213164	213157 25
PL-Electronic Reflector R50 7W WW GU10 230-240V ICT	FBT-20/27/1b-230/240-GU10	8727900213133	54 gr	10	26.7 cm x 11.2 cm x 10.7 cm	8727900213140	213133 25

### Cap Base



E14



GU10



PL E Refl E27

**Product Description**

- Energy-saving lamp approximating the shape of an R80 incandescent reflector lamp
- Professional long-life and energy-saving alternative to incandescent lamps

**Product Features**

- High light intensity in a specific direction
- 80% of nominal light output reached within two minutes of switch-on
- Almost constant light output (>80%) over recommended temperature range (-20 to +55°C), both base-up and base-down

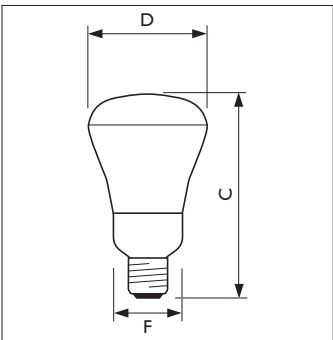
**Product Benefits**

- 50% energy saving compared with standard incandescent lamps
- Direct replacement for R80 reflector lamps in numerous professional applications
- Light quality and distribution similar to opalised incandescent R80 reflector lamps
- High reliability, especially important where lighting is used for longer periods and / or where lamp replacement is difficult
- Lifetime independent of number of on-off switching cycles

**Application**

- Direct replacement for R80 reflector lamps in numerous professional applications, e.g. hotels and restaurants as well as horticulture
- Dimming or electronic control devices cannot be used

[www.philips.com/OEM](http://www.philips.com/OEM)



PL E Refl E27

Type	CMax	DMax	FMax
PL-Electronic Reflector R80 20W/827/840 E27 230-240V ICT	143,0	81	48,1

## Technical data

Type	Voltage  (V)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 50% failures (hrs)
PL-Electronic Reflector R80 20W/827/840 E27 230-240V ICT	230-240	20	-	No	10000

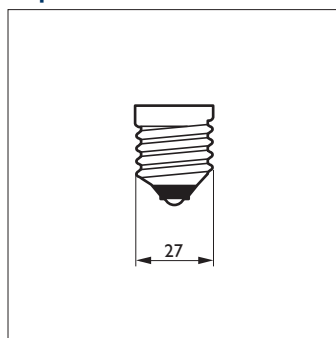
## Light data

Type	Luminous flux lamp (lm)	Luminous Efficacy Lamp (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
PL-Electronic Reflector R80 20W/827 E27 230-240V ICT	750	36.0	Warm White	2700	82	470	415
PL-Electronic Reflector R80 20W/840 E27 230-240V ICT	750	35.0	Cool White	4000	84	380	680

## Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8711500
PL-Electronic Reflector R80 20W/827 E27 230-240V ICT	FBT-20/27/1b-230/240-E27	8711500659897	83 gr	6	18 cm x 26.6 cm x 16.5 cm	8711500659910	659897 10
PL-Electronic Reflector R80 20W/840 E27 230-240V ICT	FBT-20/27/1b-230/240-E27	8711500831897	117 gr	6	18 cm x 26.6 cm x 16.5 cm	8711500831903	831897 10

## Cap Base



E27



Ambiance Reflector

**Energy-saving solution for directional light**

- An ideal energy saving replacement for incandescent reflector bulbs in indoor fixtures that give focused lighting effects

**Up to 80% energy saving**

- The Reflector range is available in the exact same diameters as their incandescent equivalent, allowing for immediate saving of up to 80% on energy consumption

**Long Life: 6 Years**

- 6000 hrs. Up to 6 times longer when compared to incandescent lamps
- 1 year guarantee

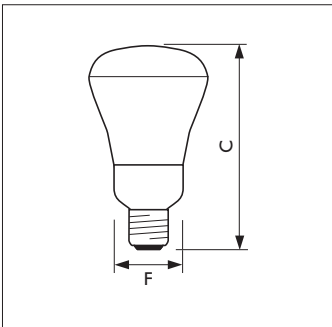
**Best Environmental choice**

- The Ambiance Reflector range is fully RoHS compliant conforming to the most strict environmental legislation in the world

**Applications**

- Designed for replacement of incandescent and halogen reflector lamps in downlighters in home and more professional applications like shops, restaurants, cafés
- Not suitable for dimming and electronic devices

[www.philips.com/OEM](http://www.philips.com/OEM)



Ambiance Reflector

Type	C	F
8W R60	114	44
11W R63	124	44
14W R80	130	50
18W R80	144	50

## Preferred selection

Type	Lamp Watt.  (W)	Cap/ Base	Bulb Shape	Freq. (Hz)	Colour Temp.  (K)	Colour Rendering Index (Ra)	Beam Angle  (degrees)	Light Output  (Lumen)	Efficacy  (Lm/W)	Packaging Type / config.	Lifetime  (hrs)	Dim.	Order Code  <b>8710163</b>
<b>Cool Daylight</b>													
Ambiance Ref.	8W	E27	R63	50-60Hz	6500	80	120	265	33	ICT/12	6000	No	40223915
Ambiance Ref.	8W	B22	R63	50-60Hz	6500	80	120	265	33	ICT/12	6000	No	40225315
Ambiance Ref.	11W	E27	R63	50-60Hz	6500	80	120	365	33	ICT/12	6000	No	40227715
Ambiance Ref.	11W	B22	R63	50-60Hz	6500	80	120	365	33	ICT/12	6000	No	40229115
Ambiance Ref.	14W	E27	R80	50-60Hz	6500	80	120	585	42	ICT/6	6000	No	40231410
Ambiance Ref.	14W	B22	R80	50-60Hz	6500	80	120	585	42	ICT/6	6000	No	40233810
Ambiance Ref.	18W	E27	R95	50-60Hz	6500	80	120	800	45	ICT/6	6000	No	40235210
Ambiance Ref.	18W	B22	R95	50-60Hz	6500	80	120	800	45	ICT/6	6000	No	40237610
<b>Warm White</b>													
Ambiance Ref.	8W	E27	R63	50-60Hz	2700	82	120	280	35	ICT/12	6000	No	40222215
Ambiance Ref.	8W	B22	R63	50-60Hz	2700	82	120	280	35	ICT/12	6000	No	40224615
Ambiance Ref.	11W	E27	R63	50-60Hz	2700	82	120	385	35	ICT/12	6000	No	40226015
Ambiance Ref.	11W	B22	R63	50-60Hz	2700	82	120	385	35	ICT/12	6000	No	40228415
Ambiance Ref.	14W	E27	R80	50-60Hz	2700	82	120	615	44	ICT/6	6000	No	40230710
Ambiance Ref.	14W	B22	R80	50-60Hz	2700	82	120	615	44	ICT/6	6000	No	40232110
Ambiance Ref.	18W	E27	R95	50-60Hz	2700	82	120	840	47	ICT/6	6000	No	40234510
Ambiance Ref.	18W	B22	R95	50-60Hz	2700	82	120	840	47	ICT/6	6000	No	40236910





Ambiance Reflector PAR38

#### Same size, Wide beam

- Same size as the PAR38 incandescent equivalent, not fit issues in existing luminaires
- Wide beam angle of 120°
- Hard glass makes the lamps suitable for outdoor use

#### Up to 80% energy saving

- For savings of up to 80% energy as you can directly replace 80W and 120W PAR38 incandescent lamps

#### Long Life: 6 Years

- Reliable life of 6000 hrs, which is up to 6 times longer when compared to incandescent lamps
- 1 year guarantee
- Constant light output thanks to amalgam technology

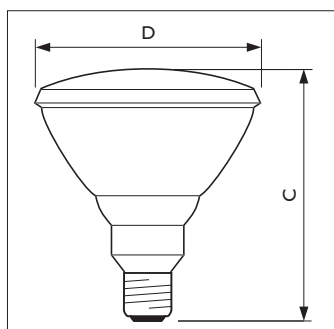
#### Best Environmental choice

- The Ambiance Reflector range is fully RoHS compliant conforming to the most strict environmental legislation in the world

#### Applications

- Wide range of indoor and outdoor applications like shops, windows displays, homes, hotels, buildings, statues, exhibitions, parks & gardens
- Not suitable for enclosed fixtures
- Not suitable for dimmers, electronic switches or remote controls

[www.philips.com/OEM](http://www.philips.com/OEM)



Ambiance Reflector PAR38

Type	C	D
PAR38 18W	135	122
PAR38 23W	159	122

**Preferred selection**

Type	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temperature (K)	Colour Rendering (Ra)	Light Output (Lumen)	Efficacy (Lm/W)	Order Code  8710163
<b>Cool Daylight</b>									
Ambiance Reflector PAR38	18W	E27	220-240V	50-60Hz	6500	80	800	46	Available on request
Ambiance Reflector PAR38	18W	B22	220-240V	50-60Hz	6500	80	800	46	Available on request
Ambiance Reflector PAR38	23W	E27	220-240V	50-60Hz	6500	80	1000	50	40219210
Ambiance Reflector PAR38	23W	B22	220-240V	50-60Hz	6500	80	1000	50	40221510
<b>Warm White</b>									
Ambiance Reflector PAR38	18W	E27	220-240V	50-60Hz	2700	82	850	50	Available on request
Ambiance Reflector PAR38	18W	B22	220-240V	50-60Hz	2700	82	850	50	Available on request
Ambiance Reflector PAR38	23W	E27	220-240V	50-60Hz	2700	82	1250	54	40218510
Ambiance Reflector PAR38	23W	B22	220-240V	50-60Hz	2700	82	1250	54	40220810